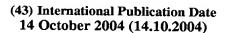
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau







PCT

(10) International Publication Number WO 2004/087744 A2

- (51) International Patent Classification?: C07K 7/08, A61K 38/10, C12N 15/11, G01N 33/50, C12N 15/62, A01K 67/027, C12N 15/10, A61P 25/28
- (21) International Application Number:

PCT/JP2004/004385

- (22) International Filing Date: 26 March 2004 (26.03.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

 2003-092923
 28 March 2003 (28.03.2003)
 JP

 2003-125681
 30 April 2003 (30.04.2003)
 JP

 2003-284559
 31 July 2003 (31.07.2003)
 JP

- (71) Applicant (for all designated States except US): INTEL-LECTUAL PROPERTY CONSULTING INC. [JP/JP]; The Imperial Hotel Tower 12F, 1-1-1, Uchisaiwaicho, Chiyoda-ku, Tokyo 1000011 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TOHYAMA, Masaya [JP/JP]; 9-3, Shinsenrikitamachi 2-chome, Toyonaka-shi, Osaka 5600081 (JP). YAMASHITA, Toshihide [JP/JP]; 1-8-1, Ihana, Chuo-ku, Chiba-shi, Chiba 2600856 (JP). TANAKA, Hiroyuki [JP/JP]; 2-2, Yamadaoka, Suita-shi, Osaka 5650871 (JP). HIGUCHI, Haruhisa [JP/JP]; 2-2, Yamadaoka, Suita-shi, Osaka 5650871 (JP).

- (74) Agents: YAMAMOTO, Shusaku et al.; Crystal Tower 15F, 2-27, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 5406015 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITION AND METHOD FOR NERVE REGENERATION

(57) Abstract: The present invention provides a pharmaceutical composition and method for regenerating nerves and treating neurological diseases based on nerve regeneration. The present invention employs a substance, such as Pep5, PKC, IP3, Rho, Rho GDI, Rho kinase, or the like, which are involved in a p75 signal transduction pathway, or an agent capable of specifically interacting with any of these substances to block or suppress the p75 signal transduction pathway, thereby stopping inhibition of nerve regeneration. As a result, nerve regeneration is resumed. The present invention is also the first to disclose that the PTD domain is useful as an agent for nerve regeneration.



WO 2004/087744